In the Claims

1. (Currently Amended) A method for detecting, preventing, and/or treating a condition requiring regulation of trophoblast invasion comprising modulating $\overline{TGF\beta}$, receptors of eytokines of the $\overline{TGF\beta}$ family, HIF-1 α , or oxygen tension.

- 2. (Currently Amended) A method for diagnosing in a subject a condition requiring regulation of trophoblast invasion comprising detecting \overline{TGF} β 3, receptors of cytokines of the \overline{TGF} family, or HIF-1 α in a sample from the subject.
- 3. (Original) A method for diagnosing increased risk of preeclampsia in a subject comprising detecting TGF- β_3 in a sample from the subject.
- 4. (Original) A method as claimed in claim 3 which comprises (a) collecting a sample from the subject; (b) measuring the levels of TGF- β_3 in the sample; and (c) comparing the levels of TGF- β_3 in the sample to the levels in women with normal pregnancies.
- 5. (Original) A method as claimed in claim 4 wherein the levels of TGF- β_3 are measured in a sample from the subject during the first trimester of pregnancy.

6. (Original) A method of regulating trophoblast invasion comprising inhibiting or stimulating TGF- β_3 , receptors of cytokines of the TGF- β family, HIF-1 α , or oxygen tension.

- 7. (Original) A method for increasing trophoblast invasion in a subject comprising administering an effective amount of an inhibitor of (a) TGF- β_3 , (b) receptors of cytokines of the TGF- β family, or (c) HIF- 1α .
- 8. (Original) A method as claimed in claim 7 wherein the inhibitor is antisense to TGF- β_3 , or antisense to HIF-1 α .
- 9. (Original) A method as claimed in claim 7 wherein the inhibitor is an antibody to $TGF-\beta_3$.
 - 10. (Original) A method as claimed in claim 7 wherein the inhibitor is decorin, fetuin, α_2 -macroglobulin, or thyroglobulin, or peptides derived from sites on the compounds that bind to TGF- β_3 .
- 11. (Original) A method for reducing trophoblast invasion in a subject comprising administering an effective amount of (a) TGF- β_3 , (b) receptors of cytokines of the TGF- β family, (c) HIF-1 α , or (d) a stimulator of (a), (b), or (c).

12. (Original) A method for treating a woman suffering from, or who may be susceptible to preeclampsia comprising administering therapeutically effective dosages of an inhibitor of (a) TGF- β_3 , (b) receptors of cytokines of the TGF- β family, or (c) HIF-1 α .

- 13. (Original) A method for monitoring or treating choriocarcinoma in a subject comprising administering therapeutically effective dosages of (a) TGF- β_3 , (b) a receptor of cytokines of the TGF- β family, (c) HIF-1 α and/or (d) stimulators of (a), (b) or (c).
- 14. (Original) A method for evaluating a compound for its ability to regulate trophoblast invasion comprising the steps of:
 - (a) reacting TGF- β_3 , and a receptor of a cytokine of the TGF- β family, and a test substance, wherein the TGF- β_3 , and receptor of a cytokine of the TGF- β family, are selected so that they bind to form a ligand-receptor complex; and
 - (b) comparing to a control in the absence of the substance to determine if the substance stimulates or inhibits the binding of TGF- β_3 , to the receptor and thereby regulates trophoblast invasion.
- 15. (Original) A method for evaluating a substance for its ability to regulate trophoblast invasion comprising the steps of:
 - (a) reacting TGF- β_3 , HIF- 1α , and a test substance, wherein the TGF- β , and HIF- 1α bind to form a TGF- β_3 ,- HIF- 1α complex; and

(b) comparing to a control in the absence of the substance to determine if the substance stimulates or inhibits the binding of TGF- β_3 to HIF-1 α and thereby regulates trophoblast invasion.

- 16. (Original) A receptor complex comprising TGF- β R-I (ALK-I)-TGF- β RII-endoglin.
- 17. (Original) A composition for regulating trophoblast invasion comprising an inhibitor of (a) TGF- β_3 , (b) receptors of cytokines of the TGF- β family, or (c) HIF-1 α in an amount effective to reduce trophoblast invasion, and a carrier, diluent or excipient.
- 18. (Original) A composition as claimed in claim 17 wherein the inhibitor is antisense to $TGF-\beta_3$ or antisense to $HIF-1\alpha$.
- 19. (Original) A composition as claimed in claim 17 wherein the inhibitor is an antibody to $TGF-\beta_3$.
- 20. (New) A method for diagnosing increased risk of preeclampsia in a subject which comprises: (a) measuring levels of placental expression of HIF-1 α in a sample from the subject; and (b) comparing the levels of expression of HIF-1 α to the levels in a subject with normal pregnancy, wherein increased levels of HIF-1 α compared to levels in a subject with a normal pregnancy indicates an increased risk of preeclampsia in the subject.

21. (New) A method as claimed in claim 20, wherein the levels of placental expression of HIF-1 α are measured by detecting, directly or indirectly, the interaction of the HIF-1 α in the sample with an antibody specific for the HIF-1 α .

- 22. (New) A method as claimed in claim 21, wherein the antibody is labeled with an enzyme, fluorescent, luminescent or radioactive material.
- 23. (New) A method as claimed in claim 21, wherein the antibody is used in counter immuno-electrophoresis, a radioimmunoassay, radioimmunoprecipitation assay, an enzymelinked immuno-sorbent assay (ELISA), a dot blot assay, an inhibition or competition assay or a sandwich assay.
- 24. (New) A method as claimed in claim 20, wherein the levels of placental expression of HIF-1 α are measured by detecting, directly or indirectly, the interaction of the HIF-1 α in the sample with a DNA molecule that binds to HIF-1 α .
- 25. (New) A method as claimed in claim 24 wherein the DNA molecule is a hypoxia inducing gene.
- 26. (New) A method as claimed in claim 20, wherein the levels of placental expression of HIF-1 α are measured by detecting nucleic acid sequences encoding HIF-1 α .
- 27. (New) A method as claimed in claim 26, wherein the nucleic acid sequences encoding HIF-1 α are detected using a nucleotide probe that hybridizes to the nucleic acid sequences.

28. (New) A method as claimed in claim 26, wherein the nucleic acid sequences encoding HIF-1 α are detected by selective amplification of the nucleic acid sequences using polymerase chain reaction.

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29. (New) A method according to claim 26, wherein the nucleic acid sequences encoding HIF-1 α are detected by selective amplification of the nucleic acid sequences using polymerase chain reaction.

30. (New) A method according to claim 20, wherein the level of placental expression of HIF-1 α is measured during the first trimester of pregnancy.